

# TECHNICAL DATA SHEET

# REAFREE® 6877-T

Powder Resins / Saturated Carboxylated Polyester / Epoxy

#### **PRODUCT APPLICATION DETAILS**

Saturated carboxylated polyester suitable for the formulation of decorative and protective thermosetting tribochargeable powders in combination with epoxy resins. Reactive type.

#### **SALES SPECIFICATIONS**

	CHARACTERISTICS	METHODS
Acid value	70-80 mg KOH/g	ASTM D-1639
Viscosity (Cone and plate - 165°C)	7-16 Pa.s	DIN 53229
Color (50%)	3 max Gardner	ASTM D-1544

#### OTHER CHARACTERISTICS<sup>1</sup>

	CHARACTERISTICS	METHODS
Appearance	Pale granules	
Glass transition temperature (Tg)	approx 55 °C	DSC

<sup>&#</sup>x27;The data provided for these properties are typical values, intended only as guides, and should not be construed as sales specifications

# **CURING CONDITIONS**

10 minutes at 170°C (object temperature)

## **RECOMMENDED MIXING RATIO**

REAFREE® 6877-T / Epoxy: 50/50

#### **MARKET**

#### **Coatings & Inks**

- Industrial CoatingGeneral Industry
- **PERFORMANCE BENEFITS**
- Good flow for high reactive type.
- High salt spray resistance.
- Good mechanical properties.
- · Good recoatability.
- · Low thickness film coatings.
- Tribochargeable.



# REAFREE® 6877-T

## **FORMULATION GUIDELINES**

	STARTING FORMULATION	
REAFREE® 6877-T	328	
Titanium Dioxide <sup>(1)</sup>	331	
Epoxy resins (2)	328	
Flow modifier <sup>(3)</sup>	10	
Benzoin	3	

<sup>(1)</sup> Kronos® 2160

#### **APPLICATION / EXTRUSION CONDITIONS**

	CHARACTERISTICS
Extruder	BUSS PCS-30
Spraying gun	GEMA PG 1-B
Torque	40 %
Extrusion speed	200 rpm
Application voltage	60-80 kV
Test substrate (Degreased steel)	1 mm
Extrusion temperature	80 °C

#### **COATING PROPERTIES**

	CHARACTERISTICS	METHODS
Film thickness	60-80 microns	
Gloss (60°)	Over 90 %	
Cupping test	Over 8 mm	DIN 53156
Direct impact	Over 80 kg.cm	ASTM D-2794
Reverse impact	Over 80 kg.cm	ASTM D-2794
Conical mandrel	100 %	ASTM D-522
Adhesion	Gt0	DIN 53151

# **PRODUCT SAFETY**

Please refer to the corresponding Safety Data Sheet.

#### **DELIVERY FORM**

Granules. White opaque polyethylene bags of 25 Kg. One Ton pallet shrink – wrapped.

# **STORAGE AND HANDLING**

The resin in its original unopened bags is stable for more than three years, stored in a dry place at temperature below 30°C. Avoid direct sunlight.

Arkema Coating Resins 410 Gregson Dr. Cary, NC 27511 – USA T +1 919 469 6700 Arkema Química, S.A.U. Ctra. Olzinelles, s/n E-08470 Sant Celoni (BCN) Spain T +34 938 674 000 Arkema Chemical India Private Ltd. D-43, Trans Thane Creek MICD Industrial Area 400706 Mumbai - India T +91 22 67377122 Headquaters: **Arkema France** 420, rue d'Estienne d'Orves 92705 Colombes Cedex France T +33 (0)1 49 00 80 80





<sup>(2)</sup> Araldite® GT-7004 (Huntsman) DER™ 663 UE (Dow Chemical) Epikote® 3003 (Resolution)

<sup>(3)</sup> Byk® 360 P (Byk Chemie)